



**Australian Government**

# **Assessment Requirements for UEPOPL002 Licence to operate a reciprocating steam engine**

**Release: 1**

# **Assessment Requirements for UEPOPL002 Licence to operate a reciprocating steam engine**

## **Modification History**

Release 1. This is the first release of this unit of competency in the UEP Generation Training Package.

## **Performance Evidence**

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements, performance criteria and range of conditions on at least one occasion and includes:

- communicating effectively and working safely with others in the work area
- completing verification of problems and equipment faults and demonstrate appropriate response procedures
- compliance with Commonwealth, state or territory regulations for the acquisition of a high risk work licence for reciprocating steam engine operation
- compliance with legislation, regulations, standards, codes of practice and established safe practices and procedures for starting, operating, shutting down and maintaining a reciprocating steam engine
- compliance with organisational and site policies and procedures including quality requirements and state or territory legislation applicable to workplace operations
- compliance with WHS and environmental regulations, policies and procedures
- identifying hazards associated with the operation of the reciprocating steam engine and put in place effective hazard controls for those hazards identified
- performing efficiently and safely when starting, operating, shutting down and maintaining a reciprocating steam engine
- recording accurately and maintaining information relating to operation of a reciprocating steam engine
- starting up, monitoring and shutting down a reciprocating steam engine effectively that meets the definition of this licence class
- undertaking diagnostic and testing techniques for reciprocating steam engines
- using appropriate communication techniques with colleagues and others
- utilising relevant tools and equipment

## **Knowledge Evidence**

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements, performance criteria and range of conditions and includes knowledge of:

- basic principles of heat transfer and thermodynamics

- Commonwealth, state or territory WHS legislation, regulations, standards and codes of practice relevant to the full range of techniques for operating reciprocating steam engines
- confined space awareness and the limits for entry into a confined space
- engine speed control equipment
- environmental protection requirements relating to the disposal of waste material and storage of environmentally hazardous materials
- established communication channels and protocols in the workplace
- hierarchy of hazard identification and control
- organisational and workplace standards, requirements, policies and procedures for starting, operating, shutting down and maintaining a reciprocating steam engine
- procedures for the recording, reporting and maintenance of workplace records and information
- reciprocating steam engine capabilities and components
- reciprocating steam engine fault finding and problem solving techniques
- reciprocating steam engine operations and operating techniques
- reciprocating steam engine safety devices and testing techniques
- routine problems encountered in the process and with equipment and adjustments required for correction
- safety data sheets and material handling methods
- system components and their interaction with other plant and equipment
- types of tools and equipment and procedures for use, operation and maintenance

## Assessment Conditions

Assessments must be conducted by an assessor accredited for this High Risk Work (HRW) licence class in the Commonwealth, state or territory where the licence will be obtained (i.e. an assessor authorised by a Commonwealth, state or territory WHS/OHS regulator).

As a minimum, assessors must satisfy applicable regulatory requirements, which include requirements in the Standards for Registered Training Organisations current at the time of assessment.

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Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Assessment of performance must be undertaken in the workplace and/or under realistic workplace conditions which typically reflect:

- performing tasks and activities within timelines that would be expected in a workplace
- standard and authorised work practices, safety requirements and environmental constraints
- using full scale equipment

The use of simulators in the assessment of this unit of competency is not acceptable.

Resources for assessment must include access to:

- a range of relevant exercises, case studies and/or other simulations
- relevant and appropriate materials, tools and equipment and currently used in industry including:
  - Personal Protective Equipment (PPE) for performance assessment
  - appropriate safety equipment in safe condition
  - appropriate reciprocating steam engine and associated equipment in safe condition
- communication equipment, as required applicable documentation including workplace procedures, industry standards, equipment specifications, regulations, codes of practice and operation manuals.

## Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=1715b9fa-e7bd-441c-bb8d-cf22c9c825a8>